

KVIEW10 Field Indicator and Controller

Quad channel controller with MODBUS RTU communications K-TEK Products



Introduction

The KVIEW10 can accept and power four 4-20 mA DC signals and four pulse inputs. The KVIEW10 offers the ability to display four channels in engineering units with their corresponding bargraphs. The bargraphs can be independently scaled to engineering units.

- The nine relay outputs can be assigned in any combination to either input channel. The relay outputs can be used for alarms, pump control, and /or electric actuator control.
- Four 4-20 mA DC outputs can be scaled to any four inputs.
- The "override" feature allows the unit to automatically switch between two process variables as the control input.
- The nine 10 amp rated contacts can be setup to vary the pulse width and time between pulses. Any relay may be programmed for a scaled pulse output from the pulse input.

Features

- MODBUS RTU communications
- Ability to read and power 4 ea. 4-20 mA DC input signals & 4 ea. pulse inputs
- Relays with adjustable DB and 4 ea. 4-20 mA DC outputs
- 10 amp rated relays @ 120 vac
- Output relays may be setup for variations in pulse width & time between pulses
- Large transfective display makes it easy to read indoors or in

direct sunlight

- Large bar graphs
- Easy to configure & use: digital sensor calibration, menu driven setup, PC configurable, tag IDs
- View page showing : mA Frequency, channel name, engineering
- Scale, sensor input, (mA or Hz) contact setpoints & status
- Displays in feet & inches, psi, mA, gpm, or custom units
- Universal supply voltage: 8-30 vdc or 120 vac
- Password protection

Applications

- Digital readouts for tank level, pressure & flow rates
- Suction & discharge pressure display and control
- Timed pulsed outputs for injection choke control
- Output to throttle valves to regulate tank level & pipeline pressure
- Tank level indication and pump control
- Temperature display & control
- Flow rate display & controller
- General purpose indication with alarming capability

KVIEW10 SPECIFICATIONS

POWER: 102-140 VAC @ 60Hz or 8-30 VDC
(10 Watts min.)

ANALOG INPUTS: (4) 4-20 mA Inputs, The DV-10 can supply the loop current for 2-wire loops

PULSE INPUTS: (4) ea amplitude, 100 mV to 15 V, frequency range: 0.1 Hz to 50 kHz

ANALOG OUTPUTS: (4) 4-20 mA, Non-Isolated; OutputLoop Impedence 0- 300 ohms (assuming + 12 vdc is the minimum voltage of transmitter)

RELAYS:

- **OUTPUTS:** (9) total w/ 100% adjustable deadband
- **SETTINGS:** May be set normally open or closed with any combination of lows or highs
- **ASSIGNMENTS:** Any number of contacts can be assigned to any channel
- **PULSE RELAYS:** Any relay can be setup for a scaled Pulse Output from the Pulse Input ; Relays are programmable with adjustable pulse width/ time between pulses and time delay
- **CONTACT RATING:** 10 AMPS @ 120 vac

DATA DISPLAY: (6) Full digits

CHANNEL DISPLAY: Full graphics—Backlit

PROGRAMMABLE RELAYS: Adjustable pulse width/ time between pulses and time delay

ENGINEERING UNITS: Feet, Inches, Ounces, PSI, GPM, LBS, Barrels, Meters, Cubic Meters, Gallons, deg F, deg C, PPM, % Level, % Volume & user definable units

BARGRAPHS: (1) per Channel

OPERATING TEMP: -20 to 120°F / -29 to 49°C

SHORT CIRCUIT PROTECTION: Analog inputs are individually fused

LIGHTING PROTECTION: Analog inputs have chokes & TVS's, Power inputs have MOV's and are fused

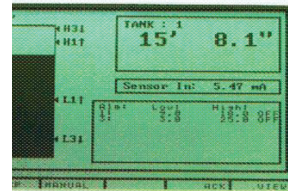
TERMINALS: 5.08 mm (0.2") Plug on

PRESSURE/RATE OVERRIDE: Programmed in the setup procedure

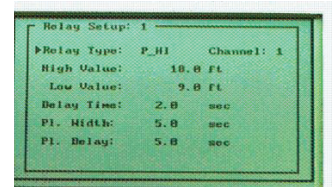
DIMENSIONS: 8.0"W x 7¼"L x 3.0"D Panel Mount

MODELS AVAILABLE

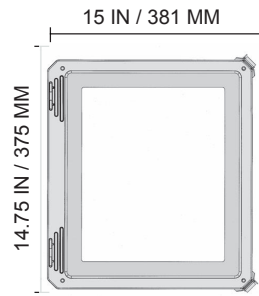
- KVIEW10 Panel Mount
- KVIEW10E Mounted in NEMA 4X Fiberglass enclosure with clear viewing window



VIEW SCREEN FOR EACH CHANNEL



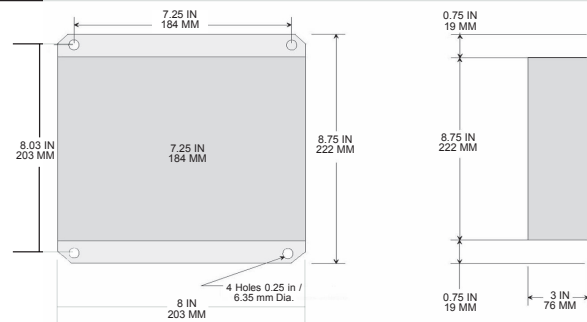
SAMPLE SCREEN FOR RELAY SETUP



KVIEW10E Optional Housing Front View



KVIEW10E Side View



KVIEW10 Dimensions Panel Mount

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